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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/777,722	02/12/2004	Mark Allen Grubbs	AUS920031050US1	5922

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EXAMINER

BLACK, LINH

ART UNIT

PAPER NUMBER

2163

DATE MAILED: 07/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/777,722	Applicant(s) GRUBBS ET AL.	
	Examiner LINH BLACK	Art Unit 2163	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>2/12/04</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This communication is in response to the Applicants' documents dated 2/12/04. Claims 1-18 are pending in the application. Claims 1, 7, and 13 are independent claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 3-6 rejected under 35 U.S.C. 103(a) as being unpatentable over Li et al. (20020032835), and further in view of McCargar (US 6014674).

As per claim 1, Li et al. teach logical volume – pars. 0052, 0054; adjust a log for a file system in a logical volume – pars. 0018, 0009 (wherein a log structured array can accommodate the size changes in data produced through data compression...), 0013; receiving a request to adjust an inline log for a file system from a current size to a new size while maintaining a size of a logical volume, wherein said inline log and said file system are stored in said logical volume – pars. 0052, 0057; allocating storage space from within said logical volume to said inline log according to a storage requirement for said new size – pars. 0063-0064, 0079. However, Li et al. do not teach reformatting

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said inline log ... McCargar teaches reformatting a log into a space – col. 3, line 53 to col. 4, line 7; col. 16, lines 18-38. Thus, it would have been obvious to one of ordinary skill in the art to combine both teachings in order to allow the log file be reformatted into the allocated space.

As per claim 3, Li et al. teach

adjusting the size of an inline log, wherein receiving a first request to adjust said inline log for said file system from said current size to said new size; detecting that additional storage space is not available for allocation to said logical volume – pars. 0066, 0069-0071.

triggering said request to adjust said inline log for said file system from said current size to said new size while maintaining said size of said logical volume – pars. 0016, 0035.

As per claim 4, Li et al. teach

adjusting the size of an inline log, wherein receiving receiving a first request to adjust said file system from a current file system size to a new file system size - pars. 0018, 0009 (wherein a log structured array can accommodate the size changes in data produced through data compression...), 0013.

triggering said request to adjust said inline log from said current size to said new size to compensate for said first request to adjust said file system from said current file system size to a new file system size - pars. 0052, 0057; pars. 0063-0064, 0079.

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As per claim 5, Li et al. teach
shrinking the total storage space allocated to said file system in said logical volume –
pars. 0016, 0035.

As per claim 6, Li et al. teach
increasing the total storage space allocated to said file system in said logical volume –
pars. 0016-0017.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Li et al.
(20020032835), McCargar (US 6014674), and further in view of Kulatunge et al. (US
6353902).

As per claim 2, Li et al. and McCargar do not teach adjusting the size of an inline log,
wherein receiving said request from a system administrator. Kulatunge et al. teach
administers and the monitoring of a group of logs – col. 3, lines 19-40; col. 4, last
paragraph. Thus, it would have been obvious to one of ordinary skill in the art to
combine Li et al.'s, McCargar's, and Kulatunge et al.'s teachings in order to allow
system administrators to adjust logs.

Claims 7-18 rejected based on the same ground of rejection as of claim 1-6.

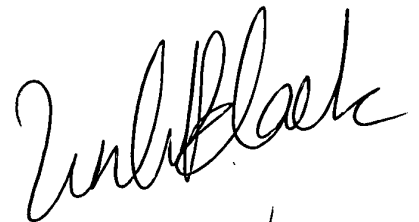
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LINH BLACK whose telephone number is 571-272-4106. The examiner can normally be reached on 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LINH BLACK
Examiner
Art Unit 2163



July 10, 2006



ALFORD KINDRED
PRIMARY EXAMINER